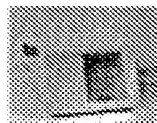


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Caleva THT10, THT20, THT30, THT40

The CALEVA electronic THT series are an economic range of tablet hardness testers for testing the essential parameters of nearly all shapes of tablets, compressed detergents and fertilisers. It is available for testing and documentation of hardness (THT 10), hardness and diameter/lengths (THT 20), hardness, diameter/lengths and thickness (THT 30) as well as hardness, diameter/lengths, thickness and weight (THT 40).

[Click here to enlarge](#)

The modern electronics allow the user to choose between two different measuring principles, namely "Constant Speed" and "Constant Force" with one and the same unit by selecting the required method in the integrated programme menu using the numeric keypad.

THT 10 measures hardness only (3 – 500 Newton, also displayable in Kilopound or Strong Cobb) while THT 20 also determines the diameter/length of the sample (0.10 – 28 mm, also displayable in inches) to document the alignment of the sample for testing hardness. Additionally the THT 30 is equipped with a manual electronic thickness measuring device, fixed and connected to the unit. Before testing hardness and diameter/length, the sample is placed under the thickness measuring tool and the thickness is measured (0.10 – 12.00 mm). With the THT 40, an external analytical balance (Mettler or Sartorius) is connected to the unit. Before testing the other parameters, the sample is placed on the balance. When the weight is stable the result is transferred to the electronic of the THT 40. The accuracy of all units is $\pm 1N$, $\pm 0,05$ mm and $\pm 0,1$ mg.

Results and statistics can be; displayed (illuminated 4-line LCD); hard copied when a printer is connected to the parallel printer port; transferred via the serial RS 232 interface; stored; processed and compared using the CALEVA software package.

Calibration for all parameters is performed via the calibration menu (guided step by step) either conventionally with weights or using the CALEVA automatic calibration tool with intelligent interface box, certified external electronic load cell and software. The calibration procedure can be documented when a printer is connected to either the unit or the PC.

[Print](#)[Back](#)[Next](#)

Caleva THT1, THT2, THT3, THT4 Technical Specification

1. Standard

- Test samples up to 28mm diameter/lengths.
- Up to 99 samples per test.
- Electronic load cell with strain gauge.
- "Constant Speed" and "Constant Force" measuring system.
- Measuring Range 3 – 500 Newton (KP or SC chosable) accuracy $\pm 1N$.
- Diameter/lengths measurement (0,10 – 28,00mm; accuracy $\pm 0,05$ mm) for THT 2/3/4.
- Integrated programme menu for easy control of the unit (numeric keypad and illuminated 4-line LCD).
- Electronic thickness measuring device (0.10 – 12mm accuracy ± 0.05 mm) connected to the unit (THT 3/THT 4).
- Analytical balance connected to the unit (20.00mg – 50.0000g accuracy $\pm 0,1$ mg) connected (THT 4).
- Test speed 6 – 8 samples/min. (THT 1/2).
- Menu guided calibration routine for all parameters with hardcopy documentation (when a printer is connected).
- Shows or prints results and statistics together with date and time, units serial number, date of calibration etc.
- Serial RS 232 interface.
- Parallel printer interface.

[Click here to enlarge](#)

2. Options

- Test jaws for oblong shaped samples.
- Test jaws for sugar coated samples.
- Printer for hard copy of results and statistics.
- Windows based software package to store, process and compare test results.
- Calibration weights and blocks, standard or certified.
- Dynamic calibration tool Including intelligent interface box, external certified load cell and Windows based software package to store and display calibration results.
- IQ/OQ handbook.
- Validation tablets.
- Printer.

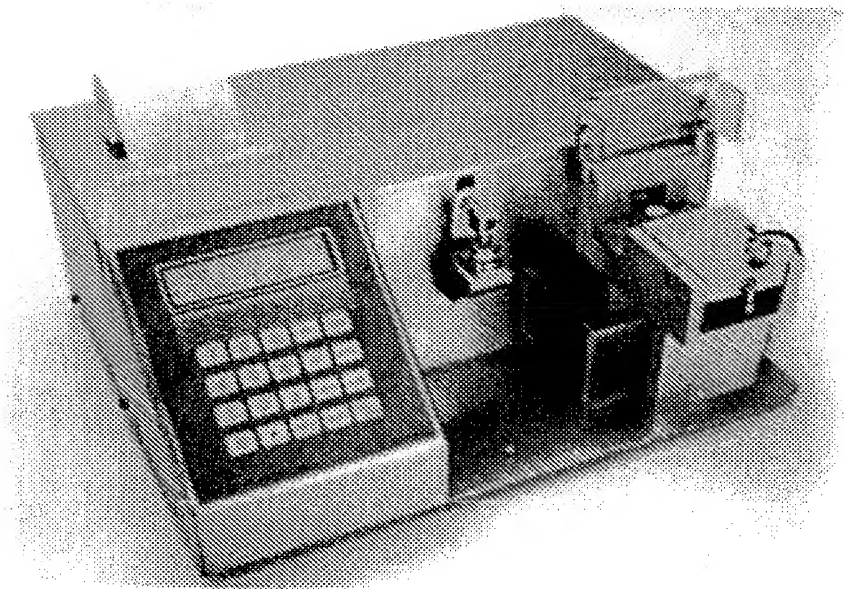
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 - Mobile High Pressure CIP Washing System
 - High Pressure CIP Washing System With Tank
 - Mobile High Pressure CIP Washing & Drying System
 - High Pressure CIP/SIP Washing, Drying & Sterilizing System
 - Portable Drying System
 - Typhoon 3000 Drying & SIP Sterilizing System
 - 1 & 2 Door Decontamination Chambers
- Microbalance Systems
- Water Sorption Analyzer

CI Electronics Ltd. QM-HTD Tablet Tester



The CI Electronics Tablet Hardness, Thickness and Diameter Tester

General Description:

The QM-HTD, one unit for testing a tablet's hardness, thickness and diameter. The QM-HTD is quick and easy to use. Hardness and thickness tests can be taken concurrently reducing the operator's time for separate recording of these measurements. The unit can be set to measure hardness in Kp. N or Sc.

For ease of testing, up to 99 product names and their associated limits can be easily entered into the units memory. Products will be automatically tested against these limits and the operator quickly alerted to any sample failures.

The operator can determine the sample size suitable for their testing regime. Once the measurements have been taken the results of each sample are printed out. The data includes hardness, thickness and diameter measurements for each item sampled and statistical data on the sample as a whole. Sample failures are clearly indicated on the printout.

Sample results of a particular batch and product monitored on that line can be accumulated and a batch summary printed at any time. The printout shows the product name, batch number, time sample taken and QM-HTDm serial number. It lists the individual weights of the sample and shows the mean weight, the SD and CV. The operator is alerted to a drift from the target weight and sample failures as these are printed in red.

The unit is designed to handle most tablet shapes and sizes. Simple change parts ensure accurate location of elliptical tablets. Custom made saddles can be made for unusual shaped product to guarantee repeatable results every time.

The design of the QM-HTD allows for quick and simple calibration procedures. A calibration 'check' can be performed daily and a 're-calibration' procedure can be completed when necessary or at six monthly intervals.

CI is sensitive to the needs of the pharmaceutical industry for comprehensive Validation Documentation to assist in meeting the requirements of the FDA and European regulatory authorities. CI can supply a complete set of Validation Support Documents with the QM-HTD. The detailed information in these documents represents a great saving in time and research for the customer.

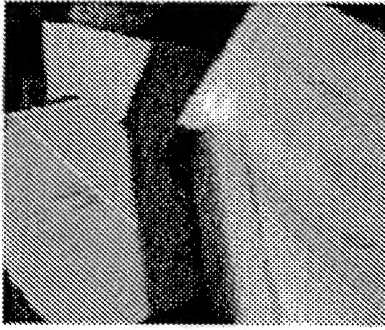
CI Electronics QM-HTD Tablet Hardness, Thickness and Diameter Tester

Specifications:

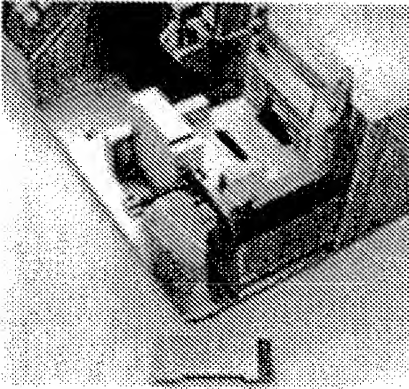
Thickness Tester:	Range: 1.0 to 15.0 mm, Accuracy: +/- 0.05mm
Hardness Tester:	Range: 2.0 to 30.0 kp, Accuracy: +/- 0.1 kp
Diameter Tester:	Range: 2.0 to 30.0mm, Accuracy: +/- 0.1mm
Air Supply:	Clean dry air 5 bar
Supply Voltage:	115/230 VAC, 50-60 HZ
Power Consumption:	50VA
Dimensions:	420mm W x 333mm D x 175mm H

Features:

- Simple designs for ease of use
- Flexible to meet your requirements
- Stainless steel construction
- Validation support
- Detailed Sample Printouts



Comprehensive Validation Packs are Available



Simple change parts allow for a large variety of products to be tested.

Key Points

- Tests Hardness, Thickness and Diameter
- Hardness units in Kp, N or Sc
- Handles most tablet shapes and sizes; Custom saddles can be made for unusual shapes
- Contact parts 316 SS; the non-contact parts are 304 SS
- Quick and simple calibration procedures
- Validation Support Documents Available

[▲ Back to top](#)

AC Compacting LLC
1577 Livingston Avenue, Post Office Box 7266
North Brunswick, NJ 08902-7266
Tel: 732-249-6900 / Tel: 800-524-0183 / Fax: 732-249-6909

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- Fully-Automated Dissolution
- In-Situ Dissolution
- Spectrophotometer

Galenical Products

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- Semi-Automated Disintegration
- Fully-Automated Disintegration
- Suppository Testing
- Tablet Hardness Testing
- Tablet Hardness Automated
- Check Weigher
- Friability Testing Manual
- Friability Testing Automated
- Powder Testing Manual
- Powder Testing Automated

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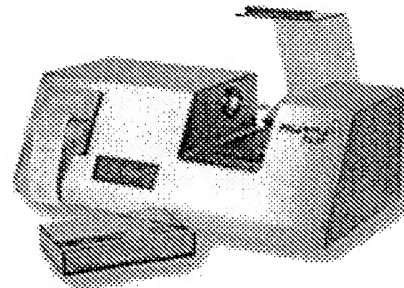
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PTB 302

Tablet Hardness Tester

The very first electronical tablet hardness tester and so the oldest member of the hardness tester team, but still a very popular instrument. Now manufactured and supplied with an inox housing and built-in thermo-printer. Sample throughput is around 6 – 10 per minute. Standard instrument has a load cell up to 300N, but can be upgraded to 500N. Display results in N, Sc or Kp. Linear Force or Speed increase mode selection, built-in printer and RS-232 interface. This unit is an excellent option for larger tablets up to 7 cm

PT-MT2



Instrument Type: PTB 302

Details, Technical Info



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- Powder Testing Manual
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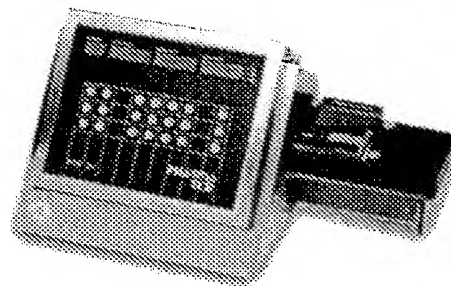
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PTB 311E

3 in 1 Hardness, Diameter and Thickness Tester

Doubtless one of our most Popular instruments for measuring Thickness (up to 15mm), Diameter (or length up to 40mm) and Hardness (up to 300N with an option to increase this to 500N). A variety of tablet thickness jaws are available for tablet diameters up to 26mm. Connect a dot matrix printer or use the optional PTB32 software for result presentation. Full calibration and validation programs Available.



Instrument Type: PTB 311E

Details, Technical Info

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